

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Detailed Estimate for the Work of Improvements to Road and Drains at Balaji krupa Layout 4th Cross to 6th Cross in ward No 05 Byatarayanapura Sub Division

		Estimate Cost						2999962.00	
SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-1.1: Earth work in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1,P. No. 5/ Item No. 2.1/ PWD SR 2013-14	cum							
	For Road Surface								
	Main Road		1	207.00	5.50	0.10	113.85		
	6th Cross		1	134.00	5.50	0.10	73.70		
	5th Cross		1	153.00	5.50	0.15	126.23		
			1	124.00	5.50	0.15	102.30		
	Desilting of Drains								
	Main Road		1X2	207.00	0.40	0.30	49.68		
	6th Cross		1X2	134.00	0.40	0.30	32.16		
	5th Cross		1X2	153.00	0.40	0.30	36.72		
			1X2	124.00	0.40	0.30	29.76		
	Berm Cutting								
	Main Road		2	207.00	0.70	0.20	57.96		
	6th Cross		2	134.00	0.70	0.20	37.52		
	5th Cross		2	153.00	0.70	0.20	42.84		
			2	124.00	0.70	0.20	34.72		
							691.00	126.36	87315.00
	Basic Rate	117.00							
	Area Weightage @ 8%	9.36							
	Total	126.36							
2	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2013-14	Cum							
	For Culverts		6	7.00	1.80	1.05	79.38		
							79.38	227.88	18089.00
	Basic Rate	211.00							
	Area Weightage @ 8%	16.88							
	Total	227.88							
3	Removing B.S Slab of Drain and stacking Page No. 28/ Item No. 5.32/ PWD SR 20113-14	Sqm							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Main Road		1X2	207.00	1.65		683.10		
	6th Cross		1X2	134.00	1.65		442.20		
	5th Cross		1X2	153.00	1.65		504.90		
			1X2	124.00	1.65		409.20		
			1X2	100.00	1.65		330.00		
							2376.00		
	Deduct 15% Missing Slabs						356.40		
							2019.60	50.11	101206.00
	Basic Rate	46.40							
	Area Weightage @ 8%	3.71							
	Total	50.11							
4	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 28/ Item No. 5.33/ PWD SR 2013-14	Sqm							
			Qty Vide Item No.3				2019.60		
							2019.60	70.04	141449.00
	Basic Rate	64.85							
	Area Weightage @ 8%	5.19							
	Total	70.04							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2013-14	Sqm							
	For Missing slabs (15%)		Missing Slabs				356.40		
							356.40	343.44	122402.00
	Basic Rate	318.00							
	Area Weightage @ 8%	25.44							
	Total	343.44							
6	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 7.5 with OPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2013-14	Cum							
	For Culverts		6	7.00	1.95	0.15	12.29		
							12.29	4290.84	52713.00
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	4290.84							
7	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.6/ PWD SR 2013-14	cum							
	For Culverts		6X2	7.00	0.60	0.45	22.68		
							22.68	3549.96	80513.00
	Basic Rate	3287.00							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	262.96							
	Total	3549.96							
8	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5-1.13 Page No. 26/ Item No. 5.9/ PWD SR 2013-14	Sqm							
	For Culverts		6X2	7.00	0.50	0.45	18.90		
							18.90	4227.12	79893.00
	Basic Rate	3914.00							
	Area Weightage @ 8%	313.12							
	Total	4227.12							
9	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.34/ PWD SR 2013-14	Sqm							
	For Culverts		6	7.00	0.60		25.20		
	For Sides		6X2	7.00	0.23		19.32		
			6X2	1.65	0.23		4.55		
							49.07	244.08	11978.00
	Basic Rate	226.00							
	Area Weightage @ 8%	18.08							
	Total	244.08							
10	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2/P No. 13/ Item No. 4.7/ PWD SR 2013-14	cum							
	For Culverts		6X2	7.00	0.50	0.10	4.20		
	Vent Bed		6	7.00	0.60	0.10	2.52		
							6.72	4737.96	31839.00
	Basic Rate	4387.00							
	Area Weightage @ 8%	350.96							
	Total	4737.96							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2013-14	Cum							
	For Culverts		6	7.00	1.65	0.23	15.94		
							15.94	5639.76	89892.00
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							
	Total	5639.76							
12	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 19/ Item No. 4.46.1/ PWD SR 2013-14	Qtl							
	0.65 Qtl/Cum		0.65	15.94			10.36	7380.72	76467.00
	Basic Rate	6834.00							
	Area Weightage @ 8%	546.72							
	Total	7380.72							
13	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 122/ Item No. 15.1/ PWD SR 2013-14	Sqm							
	For Culverts		6X2	7.00		0.50	42.00		
							42.00	79.92	3357.00
	Basic Rate	74.00							
	Area Weightage @ 8%	5.92							
	Total	79.92							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406, No. 170/ Item No. 20.18/ PWD SR 2013-14	Cum							
	Main Road		1	207.00	7.50	0.15	232.88		
	6th Cross		1	134.00	6.00	0.15	120.60		
	5th Cross		1	153.00	6.00	0.15	137.70		
			1	124.00	5.50	0.15	102.30		
							594.00	1121.04	665898.00
	Basic Rate	1038.00							
	Area Weightage @ 8%	83.04							
	Total	1121.04							
15	KSRRB 500-4: providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications Do- Medium Porosity MORTH chapter 5, No. 175/ Item No. 21.4/	Sqm							
	Main Road		1	207.00	7.50		1552.50		
	6th Cross		1	134.00	6.00		804.00		
	5th Cross		1	153.00	6.00		918.00		
			1	124.00	5.50		682.00		
							3960.00	100.60	398384.00
	Basic Rate	93.15							
	Area Weightage @ 8%	7.45							
	Total	100.60							
16	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver/finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause 14.100.3 complete in all respects as per specifications P. No.	Cum							
	Main Road		1	207.00	7.50	0.025	38.81		
	6th Cross		1	134.00	6.00	0.025	20.10		
	5th Cross		1	153.00	6.00	0.025	22.95		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6th Cross			1	124.00	5.50	0.025	17.05		
							99.00	9631.44	953513.00
	Basic Rate	8918.00							
	Area Weightage @ 8%	713.44							
	Total	9631.44							
17	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means including loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
							Qty. Vide Item No. 1+2	770.58	
								770.58	67.32
									51875.00
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							
	PWD SR 2010-11 (P.118/I.17.1) For loading	62.20							
	Total	67.32							
18	For 1% Third Party Charges								30000.00
19	Miscellaneous Charges	L/S							3192.00
								Total	3000000.00

(Rupees Thirty Laksh Only)

CERTIFICATE

- 1 The work spot has been inspected and the work is found necessary.
- 2 This estimate is prepared as per PWD SR of 2013-14
- 3 The provisions were made in this estimate are necessary and adequate.
- 4 This works come under B.B.M.P. limits

Assistant Engineer
ಸಹಾಯಕ ಇಂಜಿನಿಯರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Executive Engineer
Byatarayanapura Division
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24

ADMINISTRATIVELY SANCTIONED FOR Rs. 30.00
Rupees Thirty Lakhs only

No village grants

Registered as EE () No. 9/9
Subject to conditions contained in
enclosed memo EE () No. 9/9
Dt. Estimate A/Sanctioned
Add Comm (4) AS/593/13-14
dated 23.12.13 Rs. 30.00 Lakhs only

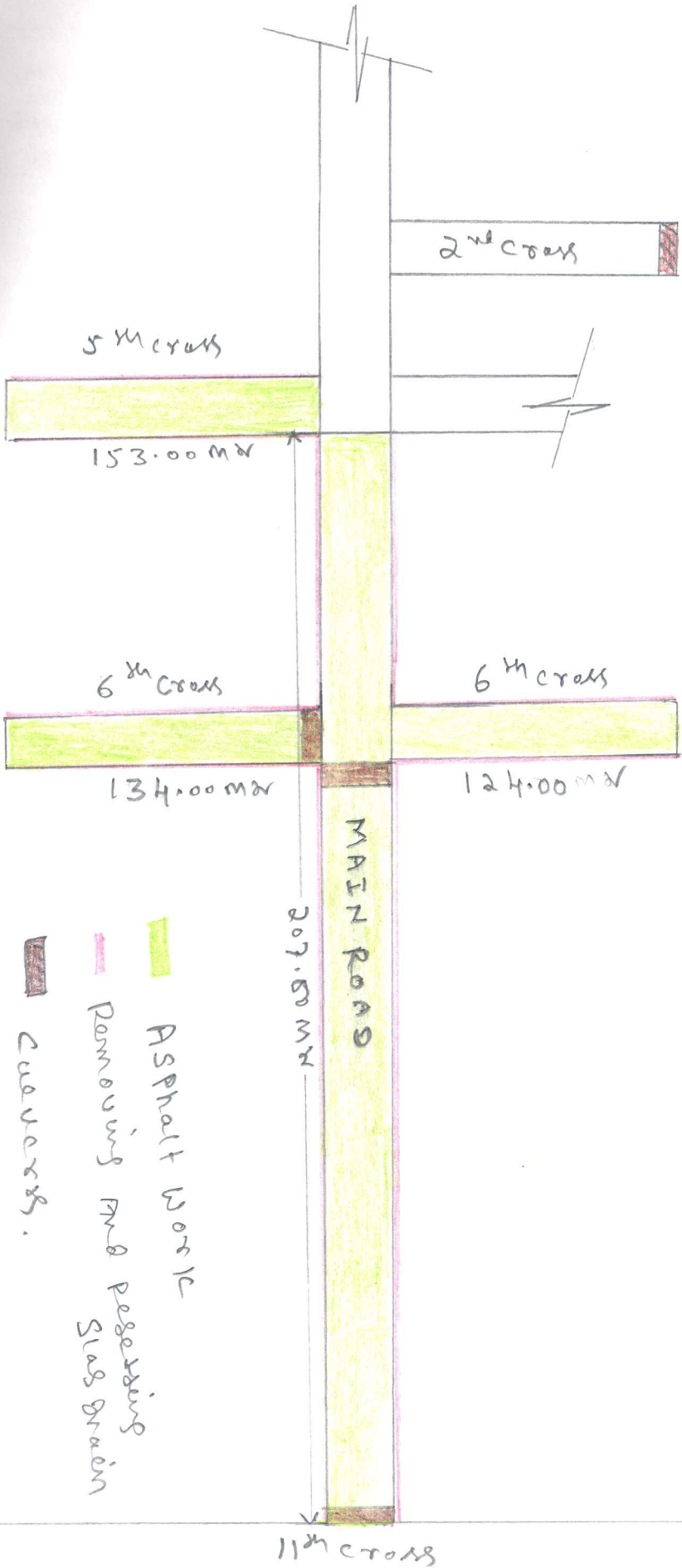
Joint Commissioner
(ಯು.ಪಿ.ಎಂ.ಪಿ. ಜಿ.ಒ.ಎಂ.ಪಿ.)
H.M.P. Bengaluru-92
ಬ್ಯಾಟರಾಯನಪುರ, ಬೆಂಗಳೂರು-92

Technical Sanction for Rs. 30.00 Lakh
Thirty Lakhs only

Registered as EE () No. 85/13-14
Subject to conditions contained in enclosed memo
No. 85/13-14
Dt. 23.12.13
Superintendent Engineer
EE (BTP.Div.)

ಯು.ಪಿ.ಎಂ.ಪಿ. ಜಿ.ಒ.ಎಂ.ಪಿ.
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-92

Improvements to Roads and Drains At Balajikrupa layout
4th Cross to 6th cross in ward no. 05 Byatarayanapura Sub Division.



ಶಿ.ಬಿ.ಎಂ.ಪಿ. ಬೈಟರಾಯನಪುರ ಸಬ್ ಡಿವಿಷನ್.

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AE-85

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore